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Title: METHOD, SYSTEM AND PROGRAM PRODUCT FOR SYNCHRONOUS
COMMUNICATION BETWEEN A PUBLIC ELECTRONIC ENVIRONMENT
AND A PRIVATE ELECTRONIC ENVIRONMENT

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2008.


Rosalind Q. Spiller

Date of Signature: September 23, 2008.

To: Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT

Dear Sir:

Applicants hereby submit this Supplemental Amendment, at the request of the Examiner,
in order to correct claim dependencies from Applicants' Amendment and Response to Office
Action submitted on dated June 26, 2008.

Amendments to the claims begin on page 2 of this paper.

Remarks begin on page 25 of this paper.

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Amendment to the Claims:

In compliance with the Revised Amendment Format, a complete listing of claims is provided herein.

1. (Previously Presented) A method for synchronous communication between a public electronic environment and a private electronic environment, comprising:

automatically routing a communication from a user in the public electronic environment to the private electronic environment;

causing a reply to the communication to be produced within the private electronic environment in real time; and

automatically returning the reply from the private electronic environment to the public electronic environment;

wherein the public electronic environment comprises a front end application, wherein the private electronic environment comprises a back end Enterprise Resource Planning (ERP) application, wherein the automatically routing comprises automatically routing the communication from the front end application to the back end ERP application, wherein the causing comprises causing the ERP application to produce the reply, and wherein the automatically returning comprises automatically returning the reply from the ERP application to the front end application for providing to the user; and

wherein the automatically routing comprises routing the communication through messaging middleware, and wherein the causing comprises causing by the messaging middleware the ERP application to produce the reply while the front end application and the messaging middleware wait therefor.

2-3. (Canceled)

4. (Currently Amended) The method of claim 1, wherein the causing further comprises causing by the messaging middleware a command to be issued to the ERP application to trigger production of the reply.

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5. (Currently Amended) The method of claim 1, wherein the automatically returning comprises returning the reply from the ERP application to the front end application through the messaging middleware.

6. (Currently Amended) The method of claim 1, wherein the front end application comprises a browser.

7. (Original) The method of claim 6, wherein the automatically routing comprises:
sending the communication from the browser to a hosting server for a site on a global computer network;

forwarding the communication from the hosting server to the messaging middleware; and

forwarding the communication from the messaging middleware to the ERP application.

8. (Original) The method of claim 7, wherein the sending comprises employing encryption for the communication.

9. (Original) The method of claim 8, wherein the employing comprises employing at least 128-bit Secure Socket Layer (SSL) encryption.

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10. (Original) The method of claim 7, wherein the messaging middleware comprises a first messaging client on the hosting server, a first messaging server, a second messaging server, and a second messaging client, and wherein forwarding the communication from the hosting server to the messaging middleware comprises:

forwarding the communication from the first messaging client to the first messaging server;

forwarding the communication from the first messaging server to the second messaging server; and

forwarding the communication from the second messaging server to the second messaging client.

11. (Previously Presented) The method of claim 10, wherein forwarding the communication from the first messaging client to the first messaging server comprises generating by the first messaging client the token identifier and forwarding a token identifier along with the communication, and wherein the automatically returning comprises returning the token identifier to the first messaging client for verification.

12. (Original) The method of claim 10, wherein forwarding the communication from the first messaging client to the first messaging server comprises encrypting the communication by the first messaging client.

13. (Original) The method of claim 12, wherein forwarding the communication from the second messaging server to the second messaging client comprises decrypting the communication by the second messaging server.

14. (Original) The method of claim 10, wherein forwarding the communication from the first messaging server to the second messaging server comprises forwarding the communication across a fire wall.

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15. (Original) The method of claim 10, wherein the second messaging client comprises a module for issuing a command to the ERP application, wherein the causing comprises issuing the command from the second messaging client to the ERP application to trigger production of the reply, and wherein forwarding the communication from the messaging middleware to the ERP application comprises forwarding the communication from the second messaging client to the ERP application.

16. (Previously Presented) The method of claim 10, wherein forwarding the communication from the messaging middleware to the ERP application comprises forwarding the communication from the second messaging client to the ERP application, and wherein the automatically returning comprises:

sending the reply from the ERP application to the second messaging client;

forwarding the reply from the second messaging client to the second messaging server;

forwarding the reply from the second messaging server to the first messaging server;

forwarding the reply from the first messaging server to the first messaging client on the hosting server; and

returning the reply from the hosting server to the browser for display.

17. (Original) The method of claim 16, wherein forwarding the reply from the second server to the first server comprises forwarding the reply through a fire wall.

18. (Original) The method of claim 16, wherein forwarding the reply from the second messaging client to the second server comprises encrypting the reply.

19. (Original) The method of claim 18, wherein forwarding the reply from the first server to the first messaging client on the hosting server comprises decrypting the reply.

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20. (Original) The method of claim 16, wherein returning the reply from the hosting server to the browser for display thereby comprises employing encryption for the reply.

21. (Original) The method of claim 20, wherein the employing comprises employing at least 128-bit Secure Socket Layer (SSL) encryption.

22. (Original) The method of claim 7, wherein forwarding the communication from the hosting server to the messaging middleware and forwarding the communication from the messaging middleware to the ERP application comprise forwarding over a private network.

23. (Currently Amended) The method of claim 1, wherein the front end application comprises a browser, wherein the messaging middleware comprises at least two messaging clients and at least one messaging server, and wherein the automatically routing comprises:

 sending the communication from the browser to a hosting server for a site on a global computer network, wherein one of the at least two messaging clients resides on the hosting server;

 forwarding the communication from the hosting server to the at least one messaging server;

 forwarding the communication from the at least one messaging server to another of the at least two messaging clients; and

 forwarding the communication from the another of the at least two messaging clients to the ERP application.

24. (Currently Amended) The method of claim 1, wherein the messaging middleware comprises MQSERIES and the ERP application comprises SAP.

25. (Currently Amended) The method of claim 1, wherein the messaging middleware comprises MQSERIES.

26. (Currently Amended) The method of claim 1, wherein the messaging middleware comprises MSMQ.

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27. (Previously Presented) The method of claim 1, wherein the ERP application comprises SAP.

28. (Currently Amended) The method of claim 1, wherein the ERP application comprises BAAN.

29. (Previously Presented) A system for synchronous communication between a public electronic environment and a private electronic environment, comprising:

means for automatically routing a communication from a user in the public electronic environment to the private electronic environment;

means for causing a reply to the communication to be produced within the private electronic environment in real time; and

means for automatically returning the reply from the private electronic environment to the public electronic environment;

wherein the public electronic environment comprises a front end application, wherein the private electronic environment comprises a back end Enterprise Resource Planning (ERP) application, wherein the means for automatically routing comprises means for automatically routing the communication from the front end application to the back end ERP application, wherein the means for causing comprises means for causing the ERP application to produce the reply, and wherein the means for automatically returning comprises means for automatically returning the reply from the ERP application to the front end application for providing to the user; and

wherein the means for automatically routing comprises means for routing the communication through messaging middleware, and wherein the means for causing comprises means for causing by the messaging middleware the ERP application to produce the reply while the front end application and the messaging middleware wait therefor.

30-31. (Canceled)

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32. (Currently Amended) The system of claim 29, wherein the means for causing further comprises means for causing by the messaging middleware a command to be issued to the ERP application to trigger production of the reply.

33. (Currently Amended) The system of claim 29, wherein the means for automatically returning comprises means for returning the reply from the ERP application to the front end application through the messaging middleware.

34. (Currently Amended) The system of claim 29, wherein the front end application comprises a browser.

35. (Original) The system of claim 34, wherein the means for automatically routing comprises:

means for sending the communication from the browser to a hosting server for a site on a global computer network;

means for forwarding the communication from the hosting server to the messaging middleware; and

means for forwarding the communication from the messaging middleware to the ERP application.

36. (Original) The system of claim 35, wherein the means for sending comprises means for employing encryption for the communication.

37. (Original) The system of claim 36, wherein the means for employing comprises means for employing at least 128-bit Secure Socket Layer (SSL) encryption.

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38. (Original) The system of claim 35, wherein the messaging middleware comprises a first messaging client on the hosting server, a first messaging server, a second messaging server, and a second messaging client, and wherein means for forwarding the communication from the hosting server to the messaging middleware comprises:

means for forwarding the communication from the first messaging client to the first messaging server;

means for forwarding the communication from the first messaging server to the second messaging server; and

means for forwarding the communication from the second messaging server to the second messaging client.

39. (Previously Presented) The system of claim 38, wherein means for forwarding the communication from the first messaging client to the first messaging server comprises means for generating by the first messaging client a token identifier and means for forwarding the token identifier along with the communication, and wherein the means for automatically returning comprises means for returning the token identifier to the first messaging client for verification.

40. (Original) The system of claim 38, wherein means for forwarding the communication from the first messaging client to the first messaging server comprises means for encrypting the communication by the first messaging client.

41. (Original) The system of claim 40, wherein means for forwarding the communication from the second messaging server to the second messaging client comprises means for decrypting the communication by the second messaging server.

42. (Original) The system of claim 38, wherein means for forwarding the communication from the first messaging server to the second messaging server comprises means for forwarding the communication across a fire wall.

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43. (Original) The system of claim 38, wherein the second messaging client comprises a module for issuing a command to the ERP application, wherein the means for causing comprises issuing the command from the second messaging client to the ERP application to trigger production of the reply, and wherein means for forwarding the communication from the messaging middleware to the ERP application comprises means for forwarding the communication from the second messaging client to the ERP application.

44. (Previously Presented) The system of claim 38, wherein means for forwarding the communication from the messaging middleware to the ERP application comprises means for forwarding the communication from the second messaging client to the ERP application, and wherein the means for automatically returning comprises:

means for sending the reply from the ERP application to the second messaging client;

means for forwarding the reply from the second messaging client to the second messaging server;

means for forwarding the reply from the second messaging server to the first messaging server;

means for forwarding the reply from the first messaging server to the first messaging client on the hosting server; and

means for returning the reply from the hosting server to the browser for display.

45. (Original) The system of claim 44, wherein means for forwarding the reply from the second server to the first server comprises means for forwarding the reply through a fire wall.

46. (Original) The system of claim 44, wherein means for forwarding the reply from the second messaging client to the second server comprises means for encrypting the reply.

47. (Original) The system of claim 46, wherein means for forwarding the reply from the first server to the first messaging client on the hosting server comprises means for decrypting the reply.

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48. (Original) The system of claim 44, wherein means for returning the reply from the hosting server to the browser for display thereby comprises means for employing encryption for the reply.

49. (Original) The system of claim 48, wherein the means for employing comprises means for employing at least 128-bit Secure Socket Layer (SSL) encryption.

50. (Original) The system of claim 35, wherein means for forwarding the communication from the hosting server to the messaging middleware and means for forwarding the communication from the messaging middleware to the ERP application comprise means for forwarding over a private network.

51. (Currently Amended) The system of claim 29, wherein the front end application comprises a browser, wherein the messaging middleware comprises at least two messaging clients and at least one messaging server, and wherein the means for automatically routing comprises:

means for sending the communication from the browser to a hosting server for a site on a global computer network, wherein one of the at least two messaging clients resides on the hosting server;

means for forwarding the communication from the hosting server to the at least one messaging server;

means for forwarding the communication from the at least one messaging server to another of the at least two messaging clients; and

means for forwarding the communication from the another of the at least two messaging clients to the ERP application.

52. (Currently Amended) The system of claim 29, wherein the messaging middleware comprises MQSERIES and the ERP application comprises SAP.

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53. (Currently Amended) The system of claim 29, wherein the messaging middleware comprises MQSERIES.

54. (Currently Amended) The system of claim 29, wherein the messaging middleware comprises MSMQ.

55. (Previously Presented) The system of claim 29, wherein the ERP application comprises SAP.

56. (Currently Amended) The system of claim 29, wherein the ERP application comprises BAAN.

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57. (Previously Presented) At least one program storage device readable by a machine, tangibly embodying at least one program of instructions executable by the machine to perform a method for synchronous communication between a public electronic environment and a private electronic environment, comprising:

automatically routing a communication from a user in the public electronic environment to the private electronic environment;

causing a reply to the communication to be produced within the private electronic environment in real time; and

automatically returning the reply from the private electronic environment to the public electronic environment;

wherein the public electronic environment comprises a front end application, wherein the private electronic environment comprises a back end Enterprise Resource Planning (ERP) application, wherein the automatically routing comprises automatically routing the communication from the front end application to the back end ERP application, wherein the causing comprises causing the ERP application to produce the reply, and wherein the automatically returning comprises automatically returning the reply from the ERP application to the front end application for providing to the user; and

wherein the automatically routing comprises routing the communication through messaging middleware, and wherein the causing comprises causing by the messaging middleware the ERP application to produce the reply while the front end application and the messaging middleware wait therefor.

58-59. (Canceled)

60. (Currently Amended) The at least one program storage device of claim 57, wherein the causing further comprises causing by the messaging middleware a command to be issued to the ERP application to trigger production of the reply.

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61. (Currently Amended) The at least one program storage device of claim 57, wherein the automatically returning comprises returning the reply from the ERP application to the front end application through the messaging middleware.

62. (Currently Amended) The at least one program storage device of claim 57, wherein the front end application comprises a browser.

63. (Original) The at least one program storage device of claim 62, wherein the automatically routing comprises:

 sending the communication from the browser to a hosting server for a site on a global computer network;

 forwarding the communication from the hosting server to the messaging middleware; and

 forwarding the communication from the messaging middleware to the ERP application.

64. (Original) The at least one program storage device of claim 63, wherein the sending comprises employing encryption for the communication.

65. (Original) The at least one program storage device of claim 64, wherein the employing comprises employing at least 128-bit Secure Socket Layer (SSL) encryption.

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66. (Original) The at least one program storage device of claim 63, wherein the messaging middleware comprises a first messaging client on the hosting server, a first messaging server, a second messaging server, and a second messaging client, and wherein forwarding the communication from the hosting server to the messaging middleware comprises:

forwarding the communication from the first messaging client to the first messaging server;

forwarding the communication from the first messaging server to the second messaging server; and

forwarding the communication from the second messaging server to the second messaging client.

67. (Previously Presented) The at least one program storage device of claim 66, wherein forwarding the communication from the first messaging client to the first messaging server comprises generating by the first messaging client a token identifier and forwarding the token identifier along with the communication, and wherein the automatically returning comprises returning the token identifier to the first messaging client for verification.

68. (Original) The at least one program storage device of claim 66, wherein forwarding the communication from the first messaging client to the first messaging server comprises encrypting the communication by the first messaging client.

69. (Original) The at least one program storage device of claim 68, wherein forwarding the communication from the second messaging server to the second messaging client comprises decrypting the communication by the second messaging server.

70. (Original) The at least one program storage device of claim 66, wherein forwarding the communication from the first messaging server to the second messaging server comprises forwarding the communication across a fire wall.

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71. (Original) The at least one program storage device of claim 66, wherein the second messaging client comprises a module for issuing a command to the ERP application, wherein the causing comprises issuing the command from the second messaging client to the ERP application to trigger production of the reply, and wherein forwarding the communication from the messaging middleware to the ERP application comprises forwarding the communication from the second messaging client to the ERP application.

72. (Previously Presented) The at least one program storage device of claim 66, wherein forwarding the communication from the messaging middleware to the ERP application comprises forwarding the communication from the second messaging client to the ERP application, and wherein the automatically returning comprises:

sending the reply from the ERP application to the second messaging client;

forwarding the reply from the second messaging client to the second messaging server;

forwarding the reply from the second messaging server to the first messaging server;

forwarding the reply from the first messaging server to the first messaging client on the hosting server; and

returning the reply from the hosting server to the browser for display.

73. (Original) The at least one program storage device of claim 72, wherein forwarding the reply from the second server to the first server comprises forwarding the reply through a fire wall.

74. (Original) The at least one program storage device of claim 72, wherein forwarding the reply from the second messaging client to the second server comprises encrypting the reply.

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75. (Original) The at least one program storage device of claim 74, wherein forwarding the reply from the first server to the first messaging client on the hosting server comprises decrypting the reply.

76. (Original) The at least one program storage device of claim 72, wherein returning the reply from the hosting server to the browser for display thereby comprises employing encryption for the reply.

77. (Original) The at least one program storage device of claim 76, wherein the employing comprises employing at least 128-bit Secure Socket Layer (SSL) encryption.

78. (Original) The at least one program storage device of claim 63, wherein forwarding the communication from the hosting server to the messaging middleware and forwarding the communication from the messaging middleware to the ERP application comprise forwarding over a private network.

79. (Currently Amended) The at least one program storage device of claim 57, wherein the front end application comprises a browser, wherein the messaging middleware comprises at least two messaging clients and at least one messaging server, and wherein the automatically routing comprises:

sending the communication from the browser to a hosting server for a site on a global computer network, wherein one of the at least two messaging clients resides on the hosting server;

forwarding the communication from the hosting server to the at least one messaging server;

forwarding the communication from the at least one messaging server to another of the at least two messaging clients; and

forwarding the communication from the another of the at least two messaging clients to the ERP application.

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80. (Currently Amended) The at least one program storage device of claim 57, wherein the messaging middleware comprises MQSERIES and the ERP application comprises SAP.

81. (Currently Amended) The at least one program storage device of claim 57, wherein the messaging middleware comprises MQSERIES.

82. (Currently Amended) The at least one program storage device of claim 57, wherein the messaging middleware comprises MSMQ.

83. (Previously Presented) The at least one program storage device of claim 57, wherein the ERP application comprises SAP.

84. (Currently Amended) The at least one program storage device of claim 57, wherein the ERP application comprises BAAN.

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85. (Previously Presented) A method for providing a computing infrastructure, comprising:

integrating computer-readable code into a computing system, wherein the computer-readable code in combination with the computing system is-adapted to perform;

automatically routing a communication from a user in a public electronic environment to a private electronic environment;

causing a reply to the communication to be produced within the private electronic environment in real time; and

automatically returning the reply from the private electronic environment to the public electronic environment;

wherein the public electronic environment comprises a front end application, wherein the private electronic environment comprises a back end Enterprise Resource Planning (ERP) application, wherein the automatically routing comprises automatically routing the communication from the front end application to the back end ERP application, wherein the causing comprises causing the ERP application to produce the reply, and wherein the automatically returning comprises automatically returning the reply from the ERP application to the front end application for providing to the user; and

wherein the automatically routing comprises routing the communication through messaging middleware, and wherein the causing comprises causing by the messaging middleware the ERP application to produce the reply while the front end application and the messaging middleware wait therefor.

86-87. (Canceled)

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88. (Currently Amended) The method of claim 85, wherein the causing further comprises causing by the messaging middleware a command to be issued to the ERP application to trigger production of the reply.

89. (Currently Amended) The method of claim 85, wherein the automatically returning comprises returning the reply from the ERP application to the front end application through the messaging middleware.

90. (Currently Amended) The method of claim 85, wherein the front end application comprises a browser.

91. (Previously Presented) The method of claim 90, wherein the automatically routing comprises:

sending the communication from the browser to a hosting server for a site on a global computer network;

forwarding the communication from the hosting server to the messaging middleware; and

forwarding the communication from the messaging middleware to the ERP application.

92. (Previously Presented) The method of claim 91, wherein the sending comprises employing encryption for the communication.

93. (Previously Presented) The method of claim 92, wherein the employing comprises employing at least 128-bit Secure Socket Layer (SSL) encryption.

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94. (Previously Presented) The method of claim 91, wherein the messaging middleware comprises a first messaging client on the hosting server, a first messaging server, a second messaging server, and a second messaging client, and wherein forwarding the communication from the hosting server to the messaging middleware comprises:

forwarding the communication from the first messaging client to the first messaging server;

forwarding the communication from the first messaging server to the second messaging server; and

forwarding the communication from the second messaging server to the second messaging client.

95. (Previously Presented) The method of claim 94, wherein forwarding the communication from the first messaging client to the first messaging server comprises generating by the first messaging client the token identifier and forwarding a token identifier along with the communication, and wherein the automatically returning comprises returning the token identifier to the first messaging client for verification.

96. (Previously Presented) The method of claim 94, wherein forwarding the communication from the first messaging client to the first messaging server comprises encrypting the communication by the first messaging client.

97. (Previously Presented) The method of claim 96, wherein forwarding the communication from the second messaging server to the second messaging client comprises decrypting the communication by the second messaging server.

98. (Previously Presented) The method of claim 94, wherein forwarding the communication from the first messaging server to the second messaging server comprises forwarding the communication across a fire wall.

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99. (Previously Presented) The method of claim 94, wherein the second messaging client comprises a module for issuing a command to the ERP application, wherein the causing comprises issuing the command from the second messaging client to the ERP application to trigger production of the reply, and wherein forwarding the communication from the messaging middleware to the ERP application comprises forwarding the communication from the second messaging client to the ERP application.

100. (Previously Presented) The method of claim 94, wherein forwarding the communication from the messaging middleware to the ERP application comprises forwarding the communication from the second messaging client to the ERP application, and wherein the automatically returning comprises:

 sending the reply from the ERP application to the second messaging client;

 forwarding the reply from the second messaging client to the second messaging server;

 forwarding the reply from the second messaging server to the first messaging server;

 forwarding the reply from the first messaging server to the first messaging client on the hosting server; and

 returning the reply from the hosting server to the browser for display.

101. (Previously Presented) The method of claim 100, wherein forwarding the reply from the second server to the first server comprises forwarding the reply through a fire wall.

102. (Previously Presented) The method of claim 100, wherein forwarding the reply from the second messaging client to the second server comprises encrypting the reply.

103. (Previously Presented) The method of claim 102, wherein forwarding the reply from the first server to the first messaging client on the hosting server comprises decrypting the reply.

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104. (Previously Presented) The method of claim 100, wherein returning the reply from the hosting server to the browser for display thereby comprises employing encryption for the reply.

105. (Previously Presented) The method of claim 104, wherein the employing comprises employing at least 128-bit Secure Socket Layer (SSL) encryption.

106. (Previously Presented) The method of claim 91, wherein forwarding the communication from the hosting server to the messaging middleware and forwarding the communication from the messaging middleware to the ERP application comprise forwarding over a private network.

107. (Currently Amended) The method of claim 85, wherein the front end application comprises a browser, wherein the messaging middleware comprises at least two messaging clients and at least one messaging server, and wherein the automatically routing comprises:

 sending the communication from the browser to a hosting server for a site on a global computer network, wherein one of the at least two messaging clients resides on the hosting server;

 forwarding the communication from the hosting server to the at least one messaging server;

 forwarding the communication from the at least one messaging server to another of the at least two messaging clients; and

 forwarding the communication from the another of the at least two messaging clients to the ERP application.

108. (Currently Amended) The method of claim 85, wherein the messaging middleware comprises MQSERIES and the ERP application comprises SAP.

109. (Currently Amended) The method of claim 85, wherein the messaging middleware comprises MQSERIES.

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110. (Currently Amended) The method of claim 85, wherein the messaging middleware comprises MSMQ.

111. (Previously Presented) The method of claim 85, wherein the ERP application comprises SAP.

112. (Currently Amended) The method of claim 85, wherein the ERP application comprises BAAN.

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REMARKS

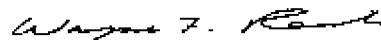
Claims 1-84 were originally presented in the subject application. Claims 3, 11, 16, 31, 39, 44, 59, 67 and 72 were amended, and claims 85-112 added in an Amendment and Response to Office Action dated November 17, 2004. Claims 1, 29, 57 and 85 were amended in an Amendment and Response to Office Action dated April 28, 2005. Claims 1, 29, 57 and 85 were amended in an Amendment and Response to Office Action dated November 28, 2005. Claims 1, 27, 29, 55, 57, 83, 85 and 111 were amended, and claims 2-3, 30-31, 58-59 and 86-87 were canceled without prejudice, in a response dated June 26, 2008.

Claims 4-6, 23-26, 28, 32-34, 51-54, 56, 60-62, 79-82, 84, 88-90, 107-110 and 112 have hereinabove been amended to correct dependency discrepancies stemming from Applicants' most recent amendment of June 26, 2008. No claims have herein been canceled or added. Therefore, claims 1, 4-29, 32-57, 60-85 and 88-112 remain in this case.

For all the above reasons, Applicants maintain that the claims of the subject application define patentable subject matter and earnestly request allowance of claims 1, 4-29, 32-57, 60-85 and 88-112.

If a telephone conference would be of assistance in advancing prosecution of the subject application, Applicants' undersigned attorney invites the Examiner to telephone him at the number provided.

Respectfully submitted,



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Dated: September 23, 2008.

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